

Abstract

A combination seal ring with an encoder for use to close off the opening of the space between a fixed ring and a rotational ring and to detect a rotational speed of the rotational ring, comprising a seal ring secured to the fixed ring, a metal slinger secured to the rotational ring, and an encoder of a rubber magnet secured to the slinger, the seal ring comprising a metal core secured to the fixed ring, and a fixed ring portion bent toward the rotational ring from the fixed cylindrical portion; and a resilient member bonded all around the metal core, the slinger comprising a rotational cylindrical portion secured to the rotational ring, and a rotational ring portion bent toward the fixed ring from the rotational cylindrical portion, the encoder bonded on the rotational circular ring portion, opposite to the seal lips by a molding process, the end rim of the encoder being short at least 0.2 mm of the end rim of the rotational circular ring portion.